

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P865607

Luminaire Tested: PRLX-2002-S-927-25L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P865607  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 8/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-2002-S-927-25L-G-U-S-X-X-WHHR-X  
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.  
LIGHT LEVEL 5  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: -

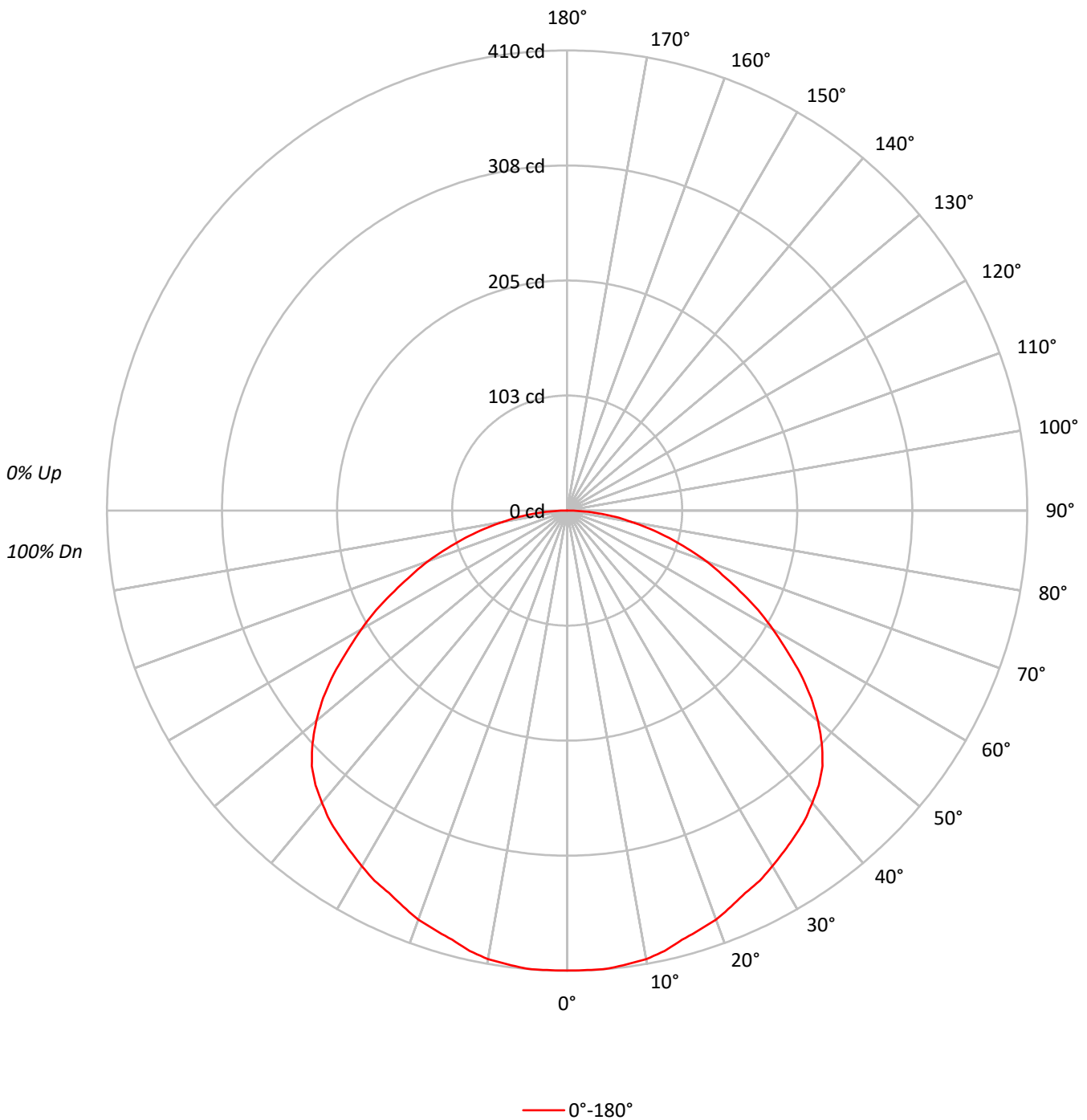
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1319.6 lumens  
Efficiency: N/A  
Efficacy: 45.3 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49  
Luminous Opening: Circular (Dia: 0.85' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: 0.333 HR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	88	81	76	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	7698
5°	7727
10°	7740
15°	7697
20°	7752
25°	7789
30°	7934
35°	8113
40°	8332
45°	8549
50°	8527
55°	8315
60°	7961
65°	7552
70°	7244
75°	6815
80°	6274
85°	6035

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 8558 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.0	3.0
10°-20°	112.1	8.5
20°-30°	174.0	13.2
30°-40°	221.8	16.8
40°-50°	246.8	18.7
50°-60°	226.2	17.1
60°-70°	169.1	12.8
70°-80°	99.4	7.5
80°-90°	31.3	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	325.1	24.6
0°-40°	546.9	41.4
0°-60°	1019.9	77.3
0°-90°	1319.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1319.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	410	
5°	410	39
15°	396	112
25°	376	174
35°	354	222
45°	322	247
55°	254	226
65°	170	169
75°	94	99
85°	28	31
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	409.8
2.5°	409.8
5°	409.8
7.5°	407.8
10°	405.8
12.5°	401.8
15°	395.8
17.5°	391.8
20°	387.8
22.5°	381.8
25°	375.8
27.5°	371.8
30°	365.8
32.5°	359.8
35°	353.8
37.5°	347.8
40°	339.8
42.5°	331.8
45°	321.8
47.5°	307.8
50°	291.8
52.5°	273.9
55°	253.9
57.5°	231.9
60°	211.9
62.5°	191.9
65°	169.9
67.5°	149.9
70°	131.9
72.5°	111.9
75°	93.9
77.5°	76.0
80°	58.0
82.5°	44.0
85°	28.0
87.5°	14.0
90°	0.0



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	19.60	21.28	19.96	21.59	21.91	19.60	21.28	19.96	21.59	21.91
	3H	21.38	22.90	21.76	23.23	23.59	21.38	22.90	21.76	23.23	23.59
	4H	22.07	23.51	22.47	23.86	24.23	22.07	23.51	22.47	23.86	24.23
	6H	22.61	23.95	23.02	24.31	24.70	22.61	23.95	23.02	24.31	24.70
	8H	22.81	24.08	23.23	24.47	24.87	22.81	24.08	23.23	24.47	24.87
	12H	22.95	24.18	23.38	24.56	24.99	22.95	24.18	23.38	24.56	24.99
4H	2H	20.22	21.66	20.62	22.01	22.38	20.22	21.66	20.62	22.01	22.38
	3H	22.24	23.45	22.65	23.85	24.24	22.24	23.45	22.65	23.85	24.24
	4H	23.07	24.17	23.50	24.58	25.01	23.07	24.17	23.50	24.58	25.01
	6H	23.74	24.70	24.19	25.14	25.60	23.74	24.70	24.19	25.14	25.60
	8H	24.00	24.90	24.46	25.34	25.80	24.00	24.90	24.46	25.34	25.80
	12H	24.20	25.01	24.68	25.49	25.95	24.20	25.01	24.68	25.49	25.95
8H	4H	23.40	24.30	23.86	24.75	25.21	23.40	24.30	23.86	24.75	25.21
	6H	24.21	24.96	24.70	25.45	25.92	24.21	24.96	24.70	25.45	25.92
	8H	24.55	25.23	25.06	25.73	26.22	24.55	25.23	25.06	25.73	26.22
	12H	24.85	25.45	25.35	25.93	26.49	24.85	25.45	25.35	25.93	26.49
12H	4H	23.45	24.26	23.93	24.73	25.20	23.45	24.26	23.93	24.73	25.20
	6H	24.28	24.96	24.79	25.46	25.95	24.28	24.96	24.79	25.46	25.95
	8H	24.69	25.29	25.20	25.78	26.34	24.69	25.29	25.20	25.78	26.34